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OPERATIONAL NOTE 1989 03 November 10, 1989

UPDATES FROM REPRESENTATIVES OF THE 22nd ANNUAL WOODLOT EXTENSION SPECIALIST SEMINAR

Submitted by:

Dale Wilson

Manager - Woodlot Education

Forest Extension Service

New Brunswick Department of Natural Resources and Energy

The 22nd Annual Woodlot Extension Specialist Seminar was held in Fredericton, September 11-15, 1989. Woodlot Extension representatives from all provinces except Manitoba and Newfoundland attended the four day meeting.

Notes based on the individual updates are submitted as:

NOVA SCOTIA DEPARTMENT OF LANDS AND FORESTS

Representatives: Bob Young
Walter Fanning
Bruce Carter
Kevin Pentz

The Department of Lands and Forests introduced its Extension Services Division in 1987. Its mandate is to act as support to operational staff to deal with the public, woodlot owners and other groups.

Extension Planning

- Extension Plans: Extension Division staff meet with departmental staff in the various regions of the province to identify extension needs. (See example in Appendix I).

- Resource Careers Binder - Extension Division staff have developed a binder of information concerning forestry careers in North America. This binder is used in high schools in Nova Scotia for career days. (F.E.S. Headquarters has a copy).

Woodlot Owner Needs Assessment

Representative woodlot owners from all parts of Nova Scotia were brought together to determine what their needs were. (See list of needs this group identified in Appendix II).

Silvilog '90 - September 13-16, 1990

Silvilog '90 will be the largest gathering of small woodlot equipment in eastern North America. It is being held at the Chignecto Management Unit, forty minutes from the N.B. border. The organizers are expecting 15,000 people to attend.

Manuals - Brochures - Pamphlets

- Forest/Wildlife Guidelines
- Shelterwood Harvesting Manual
- Parks Brochure
- Stacked Firewood Guide

(All available from F.E.S. Headquarters)

Videos

Extension Division staff have recently acquired the services of a video producer. She has recently developed a 10 minute training video on planting. This video will be suitable for both woodlot owners and silviculture contractors.

Woodlot Owner Of The Year

This program is scheduled to start next year. Each Maritime province is to have a woodlot owner chosen by the spring at which time Land and Sea is to do a story on the three woodlot owners. Presentation of awards are to be made to woodlot owners at Silvilog '90.

Publications List

Nova Scotia publication list updated regularly. (See Appendix III).

Home Study Course

There are 3 courses already developed.

(1) Introduction to Silviculture
(2) Harvesting Systems
(3) Stand Spacing

These courses are used by operational staff throughout Nova Scotia.

(F.E.S. Headquarters have copies)

Tree Talk

One local area in Nova Scotia has a weekly radio spot entitled Tree Talk. General forestry issues like planting, thinning, etc., are covered.

PRINCE EDWARD ISLAND DEPARTMENT OF FORESTRY & ENERGY

Representative: Sid Watts

Like most jurisdictions, the P.E.I. Extension Service deal with schools, youth groups, contractors, general public and woodlot owners.

Prince Edward Island have developed Modular Courses for grades 1-6 and 7-9 to be used in the school system.

Demonstration woodlots have been developed and established in P.E.I. for a number of years, their popularity has steadily increased over the years with particular interest from recreational groups.

Prince Edward Island has also been very active in the Maritime Woodlot Extension Committee, of which New Brunswick is also a part.

ONTARIO MINISTRY OF NATURAL RESOURCES

Representatives: Alec Denys
John Fingland

Ten percent of Ontario's productive forest is privately owned, this accounts for 5.9 millon hectares or 20% of the annual cut (4.9 millon m^3).

There are 169,000 woodlot owners in Ontario. The private woodlot program has reached as many as 25% of the woodlot owners based on a 1981 survey.

At present there are seven main components to the private land program in Ontario, these include:

(1) Nursery stock - 42% subsidy on seedlings, eighty-five percent of tree orders are for 2000 trees or less.

(2) Agreement Forests - Municipalities have entered into woodlot management agreements with the provincial government. There are 55 agreements since 1922 that cover 180,000 hectares.

(3) Trees Act - Cutting by-laws.

(4) Advisory Services - 12,000 field visits/year.

- 500-600 woodlot management agreements/year.

(5) Timber Marking - 500,000 m^3 of timber are marked yearly as a service to woodlot owners.

(6) Woodlands Improvement Act - 10,000 agreements in place.

- Agreements are for 15 year periods.

- 800 new agreements with woodlot owners every year.

- Eight millon trees are planted and 25,000 hectares are tended or thinned annually on agreement woodlands.

(7) Managed Forest Tax Rebate - Woodland tax rates in Ontario range from $1.80 to $55.00/acre.

- 100% of tax is given back if a woodlot management plan is done for the property.

- Currently there are 9,000 participants.

- The cost of this incentive program is $5 millon/year.

- A woodlot owner must have a minimum of 10 acres to participate in this program.

Private Land Forestry For The Future

The private land program in Ontario is being changed to better meet the needs that are facing private woodlot owners. It is becoming increasingly difficult to sell forestry on its economic benefits to society alone. Land stewardship will be emphasized in future programs.

Coordination between the Ministry of Natural Resources the Ministry of Agriculture & Food, and the Conservation Agencies is to be improved as these agencies are all involved with woodlot owners. The Ministry of Natural Resources will be the lead agency responsible and accountable for program policy and delivery as well as coordinating the efforts of the other agencies.

The Woodlot Improvement Act will be changed to include the following:

- Landowners will be expected to participate in and contribute to woodlot management activities. The intent is to move towards a minimum 25% contribution by the owners. This can be a financial or a "sweat equity" contribution.

- Woodlot owner associations are to be established to encourage management planning, to coordinate silviculture work and to market forest products harvested from woodlots.

- Partnerships between government agencies, colleges and industry will be made to carry out programs when it is determined to be good for all parties.

- Municipalities will promote and encourage sound harvesting practices on private wodlots.

The Private Land Forestry staff of O.M.N.R. are only able to meet 30% of the demand from woodlot owners seeking advice. To meet more of the demand, MNR plans to develop contractoral agreements with special interest groups such as Woodlot Owner Associations, Hunting and Fishing Associations, etc. to respond to woodlot owners with particular needs.

Rural Planning

The Ministry of Agriculture & Food and the Ministry of Natural Resources will coordinate the development of rural plans to approach the management of rural land from a holistic point of view.

- Training courses for private land staff will be given at the University of Guelph to promote management of all rural lands not just woodlots.

- Woodlot Owner Associations will be making up annual plans. The associations will be given $75,000/year to cover administration costs until they are established.

- Market development funding is being made available to promote activities aimed at developing or expanding markets for forest related crops (including Christmas trees on tobacco fields).

Education/Information

- Teachers will be hired at agriculture colleges to teach woodlot management to future agriculture representatives.

- Continuing education courses for woodlot owners will be continued.

- Field days will be conducted and demonstration woodlots will be developed and managed.

ALBERTA FORESTRY, LANDS AND WILDLIFE

Representative: Richard Keller

One percent of Alberta is in private woodlots. At present there is no private woodlot program because there is virtually no market for the wood that could be cut from private woodlots. The majority of woodlots are contained on farms. The primary species of wood on these woodlots is aspen.

Ninety percent of Alberta's forest is owned by the Crown. Forestry has not been a large component of Alberta's economy in the past because of the emphasis placed on the petroleum industry. Markets for forest products have developed steadily in Alberta during the 1980's since the province has begun to pay more attention to the forest resource.

Four forestry companies in Alberta now buy purchased wood (1.8 - 2 millon m^3/year). This may be a potential market for the small number of private woodlot owners in the province.

The forest industry in Alberta is interested in developing a wood supply analysis to determine the extent of the resource in Alberta.

The Alberta Forest Service retains portions of Crown land known as miscellaneous timber areas where annual permits are given to people to cut firewood.

The Extension Department of the Alberta Forest Service are involved in promoting forest management from an environmental viewpoint and have been involved with educating children in the schools.

The Alberta representative attended the Woodlot Extension Specialist Seminar to get information about private woodlot forestry in other parts of Canada. Alberta may develop a private land program in the future.

BRITISH COLUMBIA FORESTRY-CANADA

Representative: John Burch

The private woodlot program in B.C. is administered solely by Forestry-Canada. The current 5 year agreement has a $7 millon budget.

To date there are 300 people involved in the program. Management plans have been done for approximately 54,000 hectares and forest management treatments have taken place on 10,000 hectares.

There are approximately 21,000 woodlot owners in B.C. that own at least 20 hectares of woodland. There are approximately 1 million hectares of private woodlots in the province.

The primary goal of the private land program in B.C. is to deal with the improperly restocked cutovers that are backlogged.

An owner who applies for assistance under the Private Land Program must commit his/her land to the program for 15 years.

Rates for treatments are determined on a case by case basis. The program is intended to cover 80% of the cost of the treatment and every treatment is monitored. The average job costs $12,500 on an average of 35 hectares. The range however is $400 - $80,000 per job.

There are 11 Woodlot Owner Associations in B.C. They receive no financial assistance from government.

Last November the Federation of Woodlot Owners got together and organized a silviculture conference in cooperation with the Community Colleges.

SASKATCHEWAN FORESTRY-CANADA

Representative: Jim Johnson

In Saskatchewan Forestry-Canada delivers the private land program (the province didn't want it). The Private Woodlot Management Program began in the early 1950's when Alex Dickson was the private land forester. At that time four demonstration woodlots were set up. During the sixties and seventies the program faded away. In the mid eighties they received a Federal Provincial Forestry Agreement where $500,000 was directed towards the delivery of a private woodlot program. The primary goals of the agreement were:

(1) To create forestry awareness.

(2) To administer Forest Extension Services (advice to woodlot owners).

(3) To administer an incentive program for silviculture work. (Criteria similar to what was learned from Nova Scotia).

The Department of Agriculture is funding a study to:

(1) Review the forest inventory.

(2) Study the economic viability of producing forest products.

(3) Determine immediate needs - planting stock, awareness campaigns, etc.

The future of private land forestry in Saskatchewan will depend upon the availability of an FRDA.

Saskatchewan has also been aggressive in developing specialty products:

- Christmas tree plantations have been established and growers are actively seeking markets 5-10 years before their trees will be saleable.

- Saskatchewan woodlot owners are also exporing the feasibility of birch syrup production, as a large component of private woodlots are birch.

An Association of Woodlot Owners has been formed within the last 6 months and currently 100 woodlot owners are members. Forestry Canada representatives are looking forward to working with this group to further promote woodlot management.

QUEBEC FEDERATION OF WOODLOT OWNERS

Representatives: Giselle Belanger
Line Laferriere

The Quebec Federation of Woodlot Owners is a member of Union des Producteurs Agricoles, a large and powerful Agriculture Federation.

There are 15 territories in Quebec, all are under the jurisdiction of a marketing board.

The Federation of Woodlot Owners have recently established a new 10 year agreement with industry representing 11 mills in Quebec. The delivery price established for pulpwood is $104/cord or $28.75/$m^3$.

The Federation currently provides the following services to Quebec woodlot owners;

- Regional Technical Committees.

- Technical advice to woodlot owners where woodlot owners pay.

- Fertilization of maple bushes.

- Wildlife habitat improvement.

The Federation of Woodlot Owners have entered into an agreement with Hydro Quebec to establish minimum rates to be paid to woodlot owners for hydro line crossing their land.

The woodlot owners of Quebec provide 20-25% of forest industry needs.

A survey was done by Marcel Lortie to evaluate the success of woodlot management programs in Quebec from 1984-88. It found that woodlot programs developed by governments were generally not meeting the needs of woodlot owners. In light of this survey, Giselle Belanger did a Masters of Forestry Thesis at the University of Laval, to study the differences between the way governments and government funded groups look at managing woodlots and the way woodlot owners look at managing woodlots. The results of this thesis will be recommendations that will make future woodlot programs more useful and beneficial to woodlot owners and their woodlots.

APPENDIX I

Extension Contact Person: Walter Fanning

Division Contact Person:

DEPARTMENT OF LANDS AND FORESTS
EXTENSION PLAN

SUBDIVISION/DIVISION Reforest/Silviculture PERIOD: April 1/88 - March 31/89 APPROVED BY: _____ DATE: _____

AFFINITY GROUPS	PRIORITY*	DESCRIPTION OF EXTENSION PROGRAMS	RESOURCES			IMPLEMENTATION DATE
			TOOLS	STAFF	FUNDS	
Lands and Forests Staff	1	- Initiate planning for province-wide training in reforestation (Similar to one-week "Plantation Assessment" course of MFRS).	- Contact with CFS members in N.S., Tom Murray and MFRS.	- White, Fanning, Gray	N/A	1988-89
	6	- Extension staff to assist in transferring technological information from Research Division to Operations staff.	- one-day regional seminars. - audio-visual aids.	- Coordinated by Bailey - Fanning, Gray	N/A	1988-89
	8	- Upgrade and update audio-visual materials to be used at lectures, courses and information sessions this year.		- Coordinated by Bailey - Saunders, Gloade, Fanning, Gray	Extension	1988-89
		- Media workshop	- one-day workshop	- Henshaw, Guild	Extension	December 1988
		- Extension Methods course	- two-day course; - John Torunski	- Robertson, Young	Extension	March 1989
		- Integrated Resource Management workshop	- one-day workshop	- Bancroft, Canozzi	Extension	February 1989
		- Herbicide Information Seminar	- one-day seminar	- Gray, Fanning, MacAulay, Burgess	Extension/Protection	June 1988

DEPARTMENT OF LANDS AND FORESTS
EXTENSION PLAN

SUBDIVISION/DIVISION Reforest/Silviculture PERIOD: April 1/88 - March 31/89 APPROVED BY: _____ DATE: _____

AFFINITY GROUPS	PRIORITY*	DESCRIPTION OF EXTENSION PROGRAMS	RESOURCES			IMPLEMENTATION DATE
			TOOLS	STAFF	FUNDS	
Lands and Forests Staff (Pest Detection Officers)	3	- Produce one slide show for Pest Detection Officers to use for staff instruction.	- Technical slides and literature.	- Smith, Saunders, Gray	Extension	October 1988
Lands and Forests Staff (Pest Detection Officers)	4	- Initiate production of one slide tape show for Pest Detection Officers to use for school and public talks.	- Educational slides and	- Smith, Saunders, Gray	Extension	January 1989
General Public	7	- Extension staff to assist in providing Public Information Sessions.	- Audio-visual aids, promotion.	- Bailey, Fanning, Gray	N/A	1988-89
	9	- Produce a portable display for the reforestation program.	- Slides, exhibit materials.	- Mullin, Saunders, Russell, Fanning, Gray	Extension	February 1989
Christmas Tree Producers	2	- Extension staff to assist Reforestation/Silviculture staff in preparing for Christmas tree talks.	- Audio-visual aids.	- Fanning, Gray Ramsay, Andrus	N/A	1988-89
Group: Ventures, Lands and Forests Staff	N/A	- Complete Reforestation Manual and distribute it to group ventures and all Department staff involved in reforestation.	- Manual.	- White, Boyeler, CFS	Reforestation/Silviculture	1988-89

DEPARTMENT OF LANDS AND FORESTS
EXTENSION PLAN

SUBDIVISION/DIVISION Reforest/Silviculture PERIOD: April 1/88 - March 31/89 APPROVED BY: _____ DATE: _____

AFFINITY GROUPS	PRIORITY*	DESCRIPTION OF EXTENSION PROGRAMS	RESOURCES			IMPLEMENTATION DATE
			TOOLS	STAFF	FUNDS	
(cont'd)		- Initiate regional meetings to familiarize staff with the most important aspects of the manual.	- Manual, meetings.	- White, Fanning	Reforestation/Silviculture	February 1989
Teachers/ Schools	5	- Produce educational material aimed at Grades 5-7, to supplement tours at the Tree Breeding Centre and the forest nurseries (independent grade level).	- Pre-visit package, handouts, post-visit questionnaire.	- Mullin, Saunders, Fanning, Gray	Extension	February 1989
Post Secondary Schools	N/A	- Continue cooperation with NFRS on Silviculture II course and field tour.	"	- McNally, A. Smith	N/A	September 1988

WOODLOT OWNERS EDUCATION NEEDS ASSESSMENT WORKSHOP

Prioritized Needs

1. Wood harvesting practices/silviculture
2. Access to resource people
3. Landowner rights
4. Marketing skills - trends, prices, causes
5. Financial advice - cost and return studies - income tax
6. Woodlot owner role in the whole system
7. Field days - demos/demo woodlots
8. Impact of forestry - general awareness, need to cut, benefits of management
9. Chainsaw training/accessories/felling, bucking
10. Catalogue - available info and sources (lit, new and old)
11. Management plan info/ten year agreement
12. Chemical info/weed specialist
13. Equipment for small woodlot owners (commercial and home-made)
14. See next page
15. Access to provincial inventories and plantation assessments
16. Home study/shore courses - species i.d., woodlot ecology, achievement recognition
17. Road construction/drainage
18. Boundary line renewal
19. Forestry/wildlife - fringe items
20. Insects/diseases
21. Status of right-of-ways
22. Fire protection, fire ponds

OCTOBER 1988 - MARCH 1989

LIST OF PUBLICATIONS

APPENDIX III

AVAILABLE FROM: N.S. DEPT. OF LANDS AND FORESTS, P.O. BOX 68, TRURO, N.S. B2N 5B8. PLEASE INCLUDE YOUR POSTAL CODE WITH ALL ENQUIRIES. SINGLE COPIES FREE, QUANTITY ORDERS MAY BE PURCHASED FROM THE NOVA SCOTIA GOVERNMENT BOOKSTORE, 1567 HOLLIS ST., BOX 637, HALIFAX B3J 2T3. (902-424-7580)

TREE IDENTIFICATION

Summer Key to the Woody Plants of Nova Scotia
42 pp. Illustrated key.

Identification of Nova Scotia Woody Plants in Winter
56 pp. Illustrated key.

Trees of Nova Scotia
102 pp. Descriptions of native and exotic species, their uses, pests, and where they grow, illustrated.

FOREST INDUSTRY

N.S. Forest Production Survey
Annual list of producers and production of primary forest products.

CHRISTMAS TREES

Growing Balsam Fir Christmas Trees in Field and Forest
25 pp. G.F. Estabrooks IR M-X-164 CFS-Maritimes.

Shearing Balsam Fir Christmas Trees
14 pp. G.F. Estabrooks IR M-X-160 CFS-Maritimes.

Managing Wild Balsam Fir for Christmas Trees
30 pp. A beginner's handbook.

A Classification System for Balsam Fir Christmas Trees
3 pp. The Canadian Forest Service System.

Fertilizing Balsam Fir Christmas Trees in Wild Stands
4 pp.

WILDLIFE

Notes on Nova Scotia Wildlife
92 pp. Brief notes on big game, small game and gamebirds. Animals and tracks illustrated.

Shubenacadie Wildlife Park
Folder. Tourist's guide with coloured photos.

N.S. Trappers Newsletter
16 pp. Published Oct. articles on animals, fur prices, factors affecting the trapping industry. Free subscriptions available.

Ducks Unlimited in Nova Scotia
Folder.

Coping with Coyotes
Folder. Natural history of the coyote and recommendations for sheep protection.

Facts and Fiction about Birds of Prey
Folder.

Survey of Atlantic Salmon Sportfishing in Nova Scotia in 1983
34 pp. Analysis of questionnaire results detailing salmon fishing activities.

N.S. Conservation
16 pp. Published March, June, Sept., Dec. Articles on fish, wildlife, and conservation of natural resources in Nova Scotia. Free subscriptions available.

More Wildlife on Your Woodlot
8 pp. A pamphlet describing how to enhance wildlife through your woodlot forest management plan.

Nova Scotia's Snowshoe Hare
73 pp. Life History and management.

Shrubs for Wildlife
Folder. Valued shrubs for wildlife food and their site requirements.

Wild Apple Trees
Folder. Rejuvenating wild apple trees is the most significant step in improving wildlife habitat on your woodlot.

Interested in the out-of-doors?

Send for your free subscription to Nova Scotia Conservation magazine.

ARTICLES FROM N.S. CONSERVATION

Wood and Wildlife from Your Woodlot
8 pp. How to manage your woodlot for wildlife and wood products. Sept. 1978.

Eastern Shore Seaside Park
16 pp. Description of park and its special features, plans, etc. June 1980.

Gaspereau; the Sunday Fish
4 pp. Life history and management of gaspereau in Nova Scotia. Spring 1985.

Survival!
4 pp. How to survive being lost in the woods. Suggested survival kit. Winter 1985.

Endangered Species
4 pp. What wildlife species are endangered and rare in Nova Scotia. Fall 1986.

WOODLOT MANAGEMENT

Highlights
Colour folder 4 pp. The Canada-Nova Scotia Forestry Agreements, 1982-89. Results of programs under this agreement in English and French.

Forest Times
8 pp. Tabloid, published bimonthly. Articles on woodlot management and forestry issues. Free subscriptions available.

Building Standard Woodland Roads
21 pp. 'How to' guide.

Nova Scotia Forest Practices
Series of 6-panel full-colour folders on basic silviculture and safety practices.

ATC Utility Trailer Plans
20 pp. Construction plans for trailer and trailer accessories such as wood splitter, sprayer, winch and baler for use in the small woodlot.

A Plan for Forest Renewal
8 pp. Explains the importance of the forest resource and government assistance programs for silviculture, industry and public information.

REFORESTATION

A Guide to Handling and Planting Nursery Stock
7 pp.

Provincial Forest Nursery
Folder. A history of the nursery and a description of tree production.

Ordering and Planting Conifers, Some Questions and Answers
12 pp.

Tree Improvement in Nova Scotia
A folder describing the value and effect of genetic tree improvement work in Nova Scotia.

Tree Planting Manual
52 pp. This manual is primarily intended for contractors and their employees, although anyone planting trees will benefit.

LAWS AND REGULATIONS

Furbearer Regulations Summary
Folder. Annual.

Hunting Regulations Summary
28 pp. Annual.

Sport Fishing: Summary of Regulations
9 pp. Annual.

Forestry: A New Policy for Nova Scotia, 1986
13 pp. Booklet describing the principles, objectives and strategies for a new forest in Nova Scotia.

Wildlife: A New Policy for Nova Scotia, 1987
11 pp. Booklet describing the goals, objectives and strategies for implementing policies to enhance wildlife in Nova Scotia.

Parks: A New Policy for Nova Scotia, 1988
Booklet describing the goals and strategies for providing quality outdoor recreational opportunities for present and future generations in Nova Scotia.

FOREST INVENTORY

Nova Scotia Forests
12 pp. The most significant facts about the province's forests emphasizing industry and manufacturing.

TEACHING AIDS

Woodcraft
Folder. Building shelters, fires, seamanship, map and compass, first aid in the forest.

The Man Who Couldn't Stop Sneezing
16 pp. Illustrated children's story about importance of wood in our lives.

The Brook and the Woodcutter
24 pp. Children's story about the importance of good forest management.

Teaching with Trees
30 pp. Sample lesson plans for elementary teacher.

We Need Trees — Poster
Colour poster, 12" x 18" with Nova Scotia forest facts printed on it.

Nova Scotia is Eagle Country — Poster
Colour poster 16" x 20", with facts about Bald Eagles in Nova Scotia.

A Hunter's Best Friend — Poster
Two colours 16" x 20", to promote landowner cooperation.

Nova Scotia's Big Game — Poster
Colour poster 18" x 22" with facts about deer, moose and bear.

What's Happening in Our Woodlots?

Here's a good way to find out...

Forest Times

A free, 8 to 12-page illustrated newsletter providing information on forest improvement to private landowners and others interested in the forests of Nova Scotia

Published six times a year under the federal-provincial Forest Resources Development Agreement.

Nova Scotia's Upland Game Birds — Poster
Colour poster 18" x 22" with facts about pheasants, snipe, woodcock and Hungarian partridge.

Grouse of Nova Scotia — Poster
Colour poster 18" x 22" with facts about ruffed grouse, spruce grouse and willow ptarmigan.

Cone Critters and Other Forest Crafts
7 pp. Craft ideas for using found objects from field and forest.

Woodlot Management Home Study Course — Course for Instructors
15 pp. To provide instructor with necessary tools to successfully present the workshop portion of the Woodlot Management Home Study Course.

Woodlot Management Home Study Course
Practical tips to help the woodlot owner better understand forest management.

Module 1 — Introduction to Silviculture
72 pp. Reviews basic growth characteristics of trees and stand growth — a prerequisite to remainder of the Home Study course.

Module 2 — Harvesting Systems
47 pp. Manual of harvesting methods and how to use them in woodlot management.

Module 3 — Stand Spacing
50 pp. Manual of cleaning and spacing practices.

CAREER INFORMATION

Prospectus: The Maritime Forest Ranger School
24 pp.

RESEARCH

Lands and Forests Research Notes, and Technical Notes
Periodic detailed reports on results of forestry and wildlife projects conducted by the Department. Free subscriptions available. Titles currently available are:

*FRN
1. Rabbit browsing of conifer seedlings. 1982.
4. Biomass by-products from full tree logging. 1983.
5. Plantation Assessment Private Lands, 1985 — March 1988.
6. A Survey of Seedling Debarking Weevil Damage in First and Second Year Plantations in Nova Scotia. March 1988.
7. Small Scale Chipping Trials in Nova Scotia. March 1988.

**FTN
1. Survival of spruce-fir forests treated with *Bacillus thuringiensis Kurstaki* on Cape Breton Island. 1982.
2. Logging residue survey. 1982.

3. Plantation performance on the Trafalgar burn. 1982.
4. Cumberland County budworm losses. 1982.
5. A study on the effect of competing vegetation and browsing on early plantation performance. 1983.
7. Vegetative propagation of highland black spruce. 1983.
10. 1981 Forest Inventory Pictou Co.
11. 1981 Forest Inventory Antigonish Co.
12. 1981–82 Forest Inventory Guysborough
13. 1981–82 Forest Inventory Eastern Subdivision.
14. 1982 Forest Inventory, Hants County
15. Metric Usage guidelines. 1983.
16. N.S. Forest Inventory System, three-stage 3P sampling integrated wildlife summary specifications. 1983.
17. The Bras d'Or Lake Rainbow Fishery. 1983.
20 Lake Alnalle Study Results. 1983.

LFTN

23. Black river — Gaspereau Lake creel census, 1982.
26. Black Duck Banding Analysis — Martinique.
30. Results of Twelve Years of Creel Census on Heavily Stocked Lake. 1985.
33. 1983 Forest Inventory Halifax.
34. 1982–83 Forest Inventory South Central Subdivision.
36. Use of Tanglefoot to control winter moth, Bruce span worm and fall canker worm on ornamental trees. Dec. 85.
39. Estimating Site Potential From the Early Height Growth of Red Spruce and Balsam Fir in Nova Scotia. Dec. 85.
41. 1985 Deer Harvest Report.
42. Black Bear Report. 1985.
43. Nesting Success and Productivity of Bald Eagles *(Haliaetus leucocephalus)* in Nova Scotia. 1986.
44. Winter Tracking of Coyotes. March 1987.
45. Chignecto Bowhunt 1986.
46. The 1986 Nova Scotia Moose Season
47. Bras d'Or Lake Rainbow Trout: Growth Data. May 1987.
48. Feeding Inhibition of Hylobius congener by Pruning Spray. Sept. 1987.

* Published under the title of Forest Research Note.
** Published under the title of Forest Technical Note.

MISCELLANEOUS

Nova Scotia Dept. of Lands and Forests Annual Report
Approx. 75 pp. Official report on work on all sections of the Department to the Lieutenant Governor of Nova Scotia.

Nova Scotia
Department of Lands and Forests

Extension Services
Division

Heating with Wood — Safety
34 pp. Selection precautions, operation and maintenance of wood heaters and furnaces. CMHC publication in French and English.

A Matter of Safety
12 pp. The story of forest pesticide regulation.

Forestkeeping
171 pp. In his inimitable anecdotal style, Dr. Wilfrid Creighton, former Lands and Forests deputy minister tells the story of the department up to his retirement in 1969. Illustrated. Available only through N.S. Government Bookstore. (Soft cover only)

Moose River Gold Mines Provincial Park
Folder. Describes the park and the famous 1938 "Moose River Mine Disaster" it commemorates.

Park Facilities for the Disabled
Folder. Lists provincial park facilities accessible to disabled persons, with Lewis Lake provincial highlighted.

Battery Provincial Park
Folder. Description of park facilities at St. Peter's, Cape Breton.

Rissers Beach Provincial Park
Folder. Description of park facilities in Rissers Beach in Lunenburg County.

Blomidon Provincial Park
Folder. Description of park facilities in Blomidon, Kings Co.

Five Islands Provincial Park
Folder. Description of park facilities at Five Islands in Colchester County.

Five Islands Provincial Park
Folder. Description of park facilities at Five Islands in Colchester County.

OTHER SOURCES

Canadian Forestry Service
Forestry Information Section
Department of the Environment
Ottawa K1A 0H3

Canadian Wildlife Service
Environment Canada
Ottawa K1A 0H3

Canadian Wildlife Federation
1673 Carling Avenue
Ottawa K2A 1C4

Nova Scotia Museum
1747 Summer Street
Halifax B3H 3A6

Department of Environment
Terminal Building
PO Box 2107
Halifax B3J 3B7

Department of Mines and Energy
1690 Hollis Street, 3rd Floor
Halifax B3J 3J9

Department of Fisheries
PO Box 709
Pictou, Nova Scotia B0K 1H0